

augustine, bruce

From: augustine, bruce
Sent: Thursday, January 15, 2015 9:30 AM
To: 'Bajram Nela'
Subject: RE: PES Refinery flaring incident follow-up

Ben,

Please keep me in the loop on the potential enforcement here. Also, I received a 12/2/14 letter from PES indicating that the 37 Boiler exceeded their RACT limit of 495MMBtu/hr of CO for four days in late November. Is AMS planning to take action on these exceedances?

Thanks

Bruce J. Augustine
Senior Enforcement Officer
USEPA Region III
1650 Arch Street
Mailcode: 3AP20
Philadelphia, PA 19103
(215) 814-2131

From: Bajram Nela [mailto:Bajram.Nela@Phila.gov]
Sent: Wednesday, January 14, 2015 3:54 PM
To: augustine, bruce
Cc: Thomas.Huynh@phila.gov; Edward Braun; Thomas Barsley; kassahun.sellassie@phila.gov
Subject: PES Refinery flaring incident follow-up

Bruce,

I am the AMS FC&E engineering specialist who is assigned to PES. Please see below for Jackie Hom from PES's response to the questions I sent her regarding the flaring incident this past weekend. Also, reading through the incident report, PES did state that the opacity exceedance were for 88 minutes and 82 minutes respectively. But, reading on, they state that *"after 5:30 PM, it became too dark to observe smoke from the flares, although some smoking was likely."* So it seems like the opacity exceedances lasted much longer than 88 minutes and 82 minutes, but they couldn't see because it was too dark. Please let me know if you have any questions. We will continue to update you as new information becomes available. Thank you.

Bajram [Ben] Nela
Environmental Engineering Specialist
Facility Compliance and Enforcement
Air Management Services
321 S. University Avenue, 2nd Floor
Philadelphia, PA 19104-4543

Tel: (215) 685-7575
Fax: (215) 685-7593

Confidentiality Notice: This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure, forwarding, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.

From: HOM, JACQUELINE [JACQUELINE.HOM@pes-companies.com]
Sent: Wednesday, January 14, 2015 2:26 PM
To: Bajram Nela
Cc: BARKSDALE JR, CHARLES D; Kassahun Sellassie; Thomas Barsley
Subject: RE: Followup questions

Ben,

Investigations are ongoing. Preliminary the cause for the loss of air is suspected to be external corrosion.

There are no other details about the H₂S exceedances besides the information stated in the letter. However, perhaps some additional explanation of how steam impacts fuel gas H₂S levels would be helpful. Lean amine is used to absorb H₂S from fuel gas in various amine contactor locations throughout the refinery. Over time, the amine becomes saturated with H₂S (becoming rich amine) and is sent to the amine regenerators to strip off the H₂S. (The stripped H₂S or acid gas is then sent to the sulfur plant and lean amine is sent back to the amine contactors.) Steam is used in the amine regeneration process in the reboilers at the bottom of the regenerator tower. When steam is not available, amine is not properly regenerated and H₂S then cannot be absorbed into the amine from the fuel gas. This caused a significant increase in H₂S in fuel gas starting in the 5 PM hour which then led to the exceedance of the limit once the 3-hour average exceeded 162 ppm during the 7 PM hour.

Saturday's flaring events were not acid gas flaring events.

Jackie Hom
Philadelphia Energy Solutions
Environmental Department
215 339 2528

From: Bajram Nela [<mailto:Bajram.Nela@Phila.gov>]
Sent: Wednesday, January 14, 2015 11:58 AM
To: HOM, JACQUELINE
Cc: BARKSDALE JR, CHARLES D; Kassahun Sellassie; Thomas Barsley
Subject: Followup questions

Jackie,

I'm reviewing the flaring incident report PES sent to us and I have a few more questions. First, did you discover what caused the loss of air? Secondly, PES reported H₂S exceedances for 7:00 PM and 8:00 PM, which were 182 ppm and 164 ppm 3-hour averages respectively. Are there any other details regarding the H₂S exceedances? Lastly, was there any acid gas flaring and, if so, please provide the duration and details. Thank you.

Bajram [Ben] Nela
Environmental Engineering Specialist
Facility Compliance and Enforcement

Air Management Services
321 S. University Avenue, 2nd Floor
Philadelphia, PA 19104-4543

Tel: (215) 685-7575
Fax: (215) 685-7593

Confidentiality Notice: This e-mail message, including any attachments, is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure, forwarding, or distribution is prohibited. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message.
